

3M General Offices

00-91  
1501

3M Center  
St. Paul, Minnesota 55144-1000  
612/733 1110

Industrial Hygiene

Duns No.: 00-617-3082

AUG 21 1989

MATERIAL SAFETY  
DATA SHEET

**3M**

DIVISION: ADHESIVES, COATINGS AND SEALERS

TRADE NAME:

3M Silicone Lubricant

3M I.D. NUMBER: 62-4613-4825-2 62-4613-4935-9

ISSUED: APRIL 12, 1989

SUPERSEDES: OCTOBER 18, 1988

DOCUMENT: 10-3314-1

1. INGREDIENT	C.A.S. NO.	PERCENT	EXPOSURE		LIMITS	
			VALUE	UNIT	TYPE	AUTH
isobutane	75-28-5	70.0 - 80.0	NONE	NONE	NONE	NONE
n-hexane	110-54-3	10.0 - 20.0	50	ppm	TWA	ACGIH
other hexane isomers	none	1.0 - 10.0	NONE	NONE	NONE	NONE
inert silicone fluid	63148-62-9	1.0 - 10.0	NONE	NONE	NONE	NONE

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- NONE: None Established

2. PHYSICAL DATA

BOILING POINT:..... Compressed gas  
VAPOR PRESSURE:..... Compressed gas  
VAPOR DENSITY: ..... > 1.00 Air = 1  
EVAPORATION RATE:..... > 1.00 Ether = 1  
SOLUBILITY IN WATER: ..... Negligible  
SP. GRAVITY:..... 0.700 Water = 1  
PERCENT VOLATILE: ..... 95.00 %  
VOLATILE ORGANICS: ..... 560.00 gm/l  
pH: ..... N/A  
VISCOSITY: ..... N/A  
APPEARANCE AND ODOR: Transparent, liquid, very slight odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... -50.00 F  
FLAMMABLE LIMITS - LEL: ..... 1.20 %  
FLAMMABLE LIMITS - UEL: ..... 6.90 %  
AUTOIGNITION TEMPERATURE: ... N/D  
EXTINGUISHING MEDIA:  
CO2, foam, dry chemical  
SPECIAL FIRE FIGHTING PROCEDURES:  
Fire fighters should be equipped with self-contained breathing apparatus when fighting fires involving this material.  
UNUSUAL FIRE AND EXPLOSION HAZARDS:  
Extremely Flammable. Treat as flammable pressurized container. Overheated, closed container adjacent to fire could explode due to internal pressure buildup.  
NFPA-HAZARD-CODES: HEALTH 2 FIRE 4 REACTIVITY 0  
UNUSUAL REACTION HAZARD: None

4. REACTIVITY DATA

STABILITY: Stable  
INCOMPATIBILITY - MATERIALS TO AVOID:  
N/A  
CONDITIONS TO AVOID: Do not puncture or incinerate can. Do not

Abbreviations: N/D - Not Determined N/A - Not Applicable

3M Center  
St. Paul, Minnesota 55144-1000  
612/733 1110

Duns No.: 00-617-3082

MATERIAL SAFETY  
DATA SHEET

**3M**

MSDS: 3M Silicone Lubricant  
APRIL 12, 1989

PAGE: 2 of 4

---

**4. REACTIVITY DATA (continued)**

---

store at temperatures above 120F.  
**HAZARDOUS POLYMERIZATION:** Will Not Occur  
**HAZARDOUS DECOMPOSITION PRODUCTS:**  
CO, CO<sub>2</sub> and smoke particles when subjected to excessive heat or flame.

---

**5. ENVIRONMENTAL INFORMATION**

---

**SPILL RESPONSE:**

If cans rupture, observe precautions from other sections. Extinguish all ignition sources and ventilate area. Use inorganic absorbent to absorb spill, place absorbed product and partially full cans in a U.S. Dept. of Transportation approved metal container and seal.

**RECOMMENDED DISPOSAL:**

Incinerate absorbed product and partially full cans in a hazardous waste facility. U.S. EPA HAZARDOUS WASTE NUMBER: D001 (IGNITABLE). Dispose of empty cans in a sanitary landfill or incinerate in a commercial facility capable of handling aerosol cans. Consult applicable regulations or authorities before disposal.

**ENVIRONMENTAL DATA:**

Volatile Organic Compound (VOC):  
Maximum VOC = 560 grams/liter.  
Maximum VOC minus Water minus Exempt Solvents = 560 grams/liter.

**SARA HAZARD CLASS:**

**FIRE HAZARD:** Yes **PRESSURE:** Yes **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

---

**6. SUGGESTED FIRST AID**

---

**EYE CONTACT:**

Immediately flush eyes with large amounts of water for at least 10 minutes. Call a physician.

**SKIN CONTACT:**

Wash affected area with soap and water.

**INHALATION:**

Move affected person to fresh air at once. If breathing difficulties persist, call a physician.

**IF SWALLOWED:**

Do not induce vomiting. Immediately call a physician or poison control center.

**OTHER FIRST AID:**

NONE

3M Center  
St. Paul, Minnesota 55144-1000  
612/733 1110

Duns No.: 00-617-3082

MATERIAL SAFETY  
DATA SHEET**3M**MSDS: 3M Silicone Lubricant  
APRIL 12, 1989

PAGE: 3 of 4

**7. PRECAUTIONARY INFORMATION**

Keep product and its vapors away from heat, sparks, flames, and all other sources of ignition. Extinguish and do not ignite any flame in the immediate work area. The vapors released by the product can be ignited easily and burn explosively. Avoid prolonged breathing of vapors and spray. Use only in areas with sufficient ventilation to maintain vapor and spray concentrations below recommended exposure limits. Local exhaust ventilation may be needed if large quantities are sprayed in a short period of time. Avoid eye and skin contact. Use eye (e.g., safety glasses, chemical goggles) and skin (e.g., impervious gloves) protection to prevent contact. Use only as directed. Do not take internally. Intentional misuse by deliberately concentrating and inhaling or swallowing the contents can be harmful or fatal. Do not puncture or incinerate can. Do not store at temperatures above 120F. Keep out of the reach of children.

**ADDITIONAL EXPOSURE LIMITS**

INGREDIENTS	EXPOSURE		LIMITS	
	VALUE	UNIT	TYPE	AUTH
n-hexane	180	mg/m3	TWA	ACGIH
n-hexane	50	ppm	TWA	OSHA
n-hexane	180	mg/m3	TWA	OSHA

**SOURCE OF EXPOSURE LIMIT DATA:**

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration

**8. HEALTH HAZARD DATA**

**EYE CONTACT:** Liquid irritating to eyes upon direct contact.

**SKIN CONTACT:** Prolonged and repeated skin contact may defat skin leading to irritation and dermatitis. n-Hexane may be absorbed through the skin in harmful amounts.

**INHALATION:** Overexposures to vapor concentrations that exceed recommended exposure limits may cause respiratory system irritation and temporary nervous system impairment (light-headedness). Repeated or extreme overexposure to n-hexane vapors may cause nervous system damage. Symptoms of overexposure may range from mild light-headedness through weakness, dizziness, headache, nausea and facial numbness. Gross overexposure, such as is caused by deliberately concentrating and inhaling vapors in a confined vessel, can result in serious damage including asphyxiation and death.

**INGESTION:** Accidental ingestion from an aerosol container is unlikely. Intentional concentration and swallowing the liquid product may cause severe digestive system irritation, nausea and vomiting. Solvent aspiration into the lungs caused by vomiting can cause lung damage, which can be harmful.

Abbreviations: N/D - Not Determined N/A - Not Applicable

3M General Offices

00-91  
1504

3M Center  
St. Paul, Minnesota 55144-1000  
612/733 1110

Duns No.: 00-617-3082

MATERIAL SAFETY  
DATA SHEET

**3M**

MSDS: 3M Silicone Lubricant  
APRIL 12, 1989

PAGE: 4 of 4

---

**SECTION CHANGE DATES**

---

**INGREDIENTS**

**SECTION CHANGED SINCE OCTOBER 18, 1988 ISSUE**

---

Abbreviations: N/D - Not Determined N/A - Not Applicable

---

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.

BOE-C6-0229971